SEGMIC ENGINEERING

Solution Empowered by Innovations

Solutions for Efficient and Renewable Energy Management

Energy Management with PLC based Control

As a specialist in PLC-based control, Segmic delivers advanced monitoring and control for energy generation, storage and consumption. Our integrated approach combines smart metering, flexible controllers and analytics into scalable solutions that make every kilowatt-hour visible and controllable.

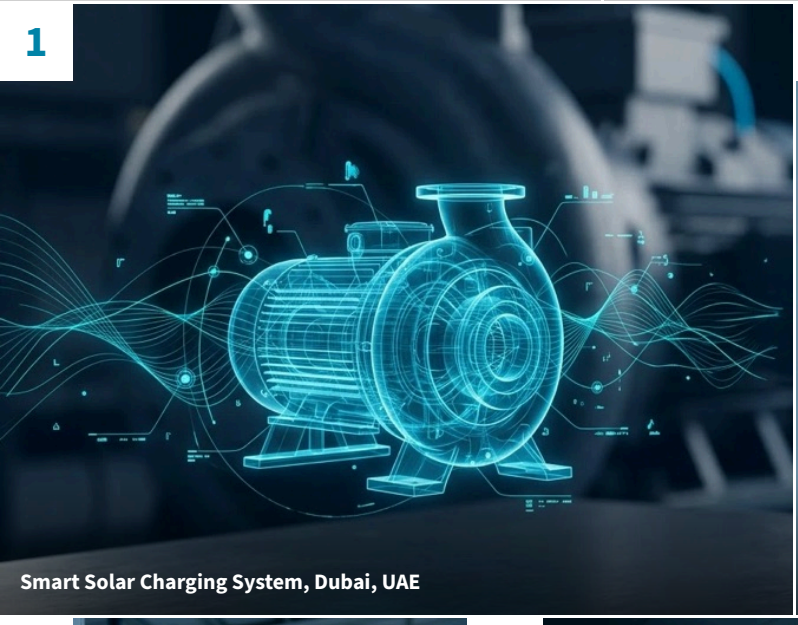
Our solutions are designed for efficiency and long-term performance, for new installations and upgrades of existing plants. With expertise in platforms such as Siemens, Schneider Electric, ABB and many more, we deliver solar charge optimisation, battery storage management, smart metering and load control tailored to each site.

From solar farms and rooftop arrays to battery storage, substations, industrial plants and commercial portfolios, our systems reduce energy cost, support sustainability targets and keep critical loads supplied.

We ensure seamless integration with inverters, meters and protection devices, supporting protocols like Modbus, M-Bus, SunSpec, IEC 61850, OPC UA, MQTT and more. Additionally, we enable edge and cloud connectivity for portfolio-wide dashboards.

Application areas for the Segmic control solution

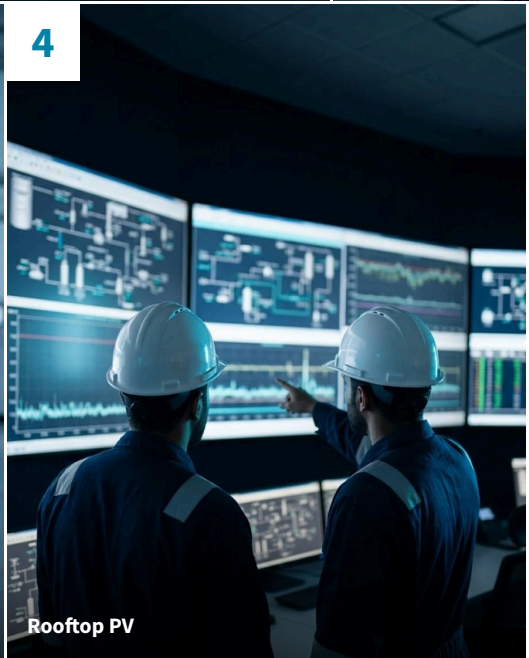
1. Solar Farms
2. Rooftop PV
3. Battery Storage
4. Substations
5. Industrial Plants
6. Commercial Portfolios
7. Microgrids
8. EV Charging
9. Backup Power



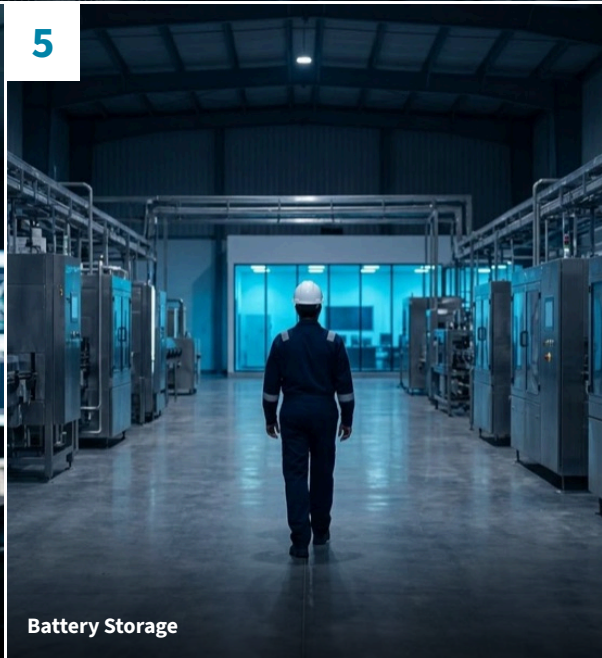
1 Smart Solar Charging System, Dubai, UAE

2 Fuel Tank Monitoring System, Riyadh, Saudi Arabia

3 Industrial PC Hardening, Dubai, UAE



4 Rooftop PV



5 Battery Storage

From individual technical systems to an energy-efficient complete solution

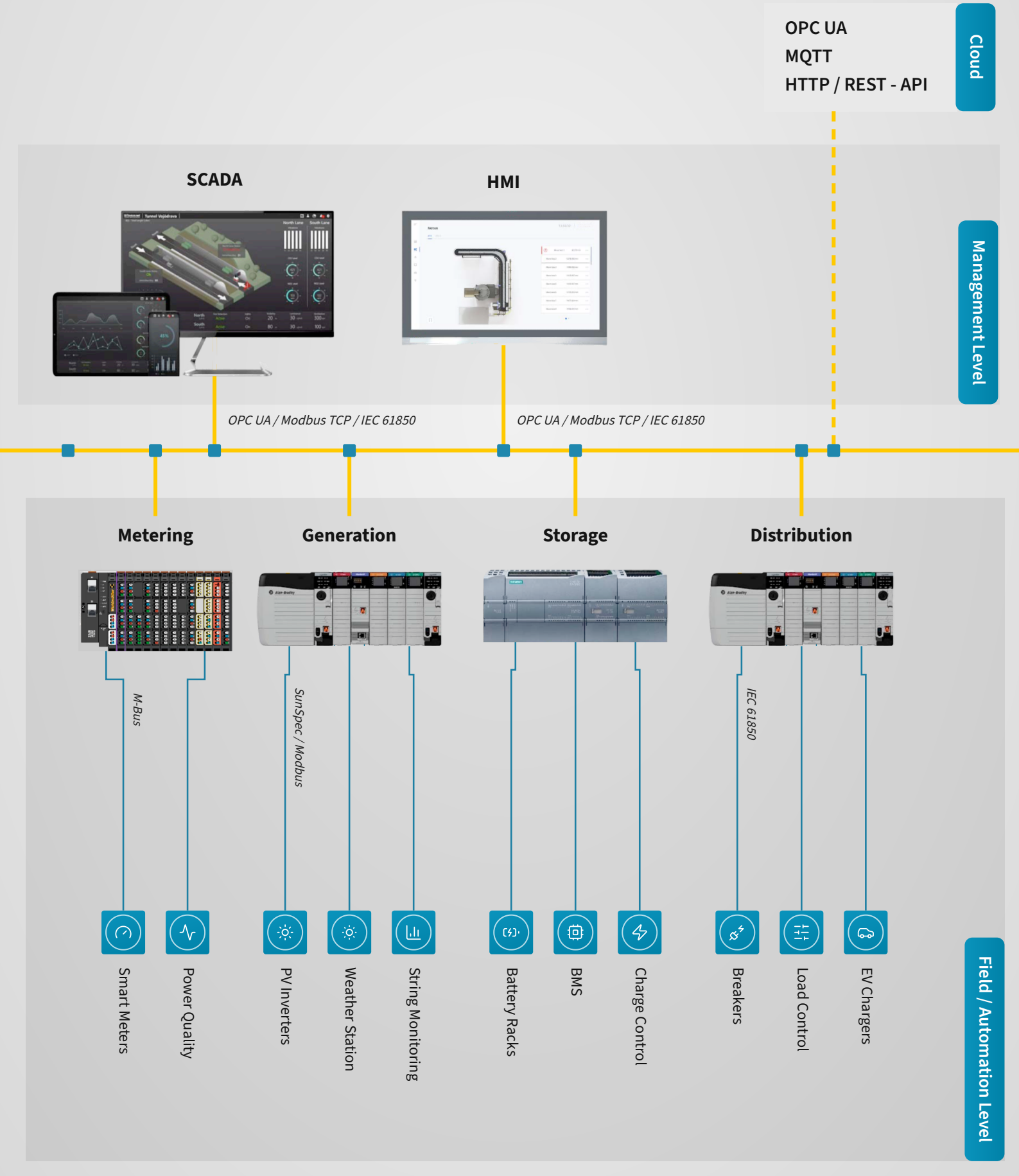
All technical systems integrated in one control system:

- Smart metering and consumption tracking
- Solar generation and charge optimisation
- Battery and storage management
- Load management and peak shaving
- Power quality and protection monitoring
- Energy analytics and reporting

All components for smart energy management

At Segmic Engineering, we connect generation, storage and consumption in one control system in a comprehensive, scalable, and future-ready manner. Our platforms integrate inverters, meters and protection relays through standard energy protocols.

This approach gives a single, trusted view of energy across all sites, enables automatic optimisation and significantly reduces the effort of commissioning and reporting.



Website

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